

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-14. (Canceled)

15. (Currently Amended) An information recording medium, which can be recorded by an information recording apparatus or which can be reproduced by an information reproducing apparatus, on which one or a plurality of titles, each of which is a logically-grouped information unit, are recorded, said information recording medium comprising:

an object data file for storing object data which constitutes a series of content information;

a play list information file for storing one or more play list information including a plurality of item information which defines a reproduction sequence of the object data by a unit of item, each of the plurality of item information includes start time and the end time of the object data;

an object information file for collectively storing object information which includes information for indicating address of a packet of the object data corresponding to each item; and

a disc information file for storing a plurality of information groups including, as reproduction control information for controlling the reproduction of said object data file, (i) play list specification information, which is different from the play list information, for specifying one play list information

stored in said play list information file, (ii) Pre command information which indicates a command to be executed before the reproduction based on the one play list information, and (iii) Post command information which indicates a command to be executed after the reproduction based on the one play list information, thereby allowing the same play list information to be specified by a plurality of play list specification information and allowing the same play list information to be combined with different Pre and Post commands, wherein

each of the object data file, the play list information file, the object information file and the disc information file is collectively recorded into different area, respectively.

16. (Previously Presented)      The information recording medium according to claim 15,

said object information further comprising correspondence definition information which defines the correspondence relationship between a plurality of packets to be multiplexed and a plurality of portion streams which are constructed from the plurality of packets which construct the object data as another reproduction control information for controlling the reproduction of said object data file.

17-18. (Canceled)

19. (Currently Amended)      An information recording apparatus for recording one or a plurality of titles, each of which is a logically-grouped information unit, onto an information recording

medium,

said information recording apparatus comprising:

a first recording device for recording an object data file for storing object data which constitutes a series of content information;

a second recording device for recording a play list information file for storing one or more play list information including a plurality of item information which defines a reproduction sequence of the object data by a unit of item, each of the plurality of item information includes start time and the end time of the object data;

a third recording device for recording [[a]] an object information file for collectively storing object information which includes information for indicating address of a packet of the object data corresponding to each item; and

a fourth recording device for recording a disc information file for storing a plurality of information groups including, as reproduction control information for controlling the reproduction of said object data file, (i) play list specification information, which is different from the play list information, for specifying one play list information stored in said play list information file, (ii) Pre command information which indicates a command to be executed before the reproduction based on the one play list information, and (iii) Post command information which indicates a command to be executed after the reproduction based on the one play list information, thereby allowing the same play list information to be specified by a plurality of play list specification information and allowing the same play list

information to be combined with different Pre and Post commands,  
wherein

each of the object data file, the play list information file, the object information file and the disc information file is collectively recorded into different area, respectively.

20. (Currently Amended) An information recording method of recording one or a plurality of titles, each of which is a logically-grouped information unit, onto an information recording medium,

said information recording method comprising:

a first recording process of recording an object data file for storing object data which constitutes a series of content information;

a second recording process of recording a play list information file for storing one or more play list information including a plurality of item information which defines a reproduction sequence of the object data by a unit of item, each of the plurality of item information includes start time and the end time of the object data;

a third recording process of recording [[a]] an object information file for collectively storing object information which includes information for indicating address of a packet of the object data corresponding to each item; and

a fourth recording process of recording a disc information file for storing a plurality of information groups including, as reproduction control information for controlling the reproduction of said object data file, (i) play list specification

information, which is different from the play list information,  
for specifying one play list information stored in said play list  
information file, (ii) Pre command information which indicates a  
command to be executed before the reproduction based on the one  
play list information, and (iii) Post command information which  
indicates a command to be executed after the reproduction based on  
the one play list information, thereby allowing the same play list  
information to be specified by a plurality of play list  
specification information and allowing the same play list  
information to be combined with different Pre and Post commands,  
wherein

each of the object data file, the play list information file,  
the object information file and the disc information file is  
collectively recorded into different area, respectively.

21. (Currently Amended) An information reproducing  
apparatus for reproducing at least one portion of recorded titles  
from an information recording medium on which one or the plurality  
of titles, each of which is a logically-grouped information unit,  
are recorded, said information recording medium comprising:

an object data file for storing object data which constitutes  
a series of content information;

a play list information file for storing one or more play  
list information including a plurality of item information which  
defines a reproduction sequence of the object data by a unit of  
item, each of the plurality of item information includes a start  
time and [[the]] an end time of the object data;

an object information file for collectively storing object

information which includes information for indicating an address of a packet of the object data corresponding to each item; and

a disc information file for storing a plurality of information groups including, as reproduction control information for controlling the reproduction of said object data file, (i) play list specification information, which is different from the play list information, for specifying one play list information stored in said play list information file, (ii) Pre command information which indicates a command to be executed before the reproduction based on the one play list information, and (iii) Post command information which indicates a command to be executed after the reproduction based on the one play list information, thereby allowing the same play list information to be specified by a plurality of play list specification information and allowing the same play list information to be combined with different Pre and Post commands, wherein each of the object data file, the play list information file, the object information file and the disc information file is collectively recorded into different area, respectively,

said information reproducing apparatus comprising:

a reading device for physically reading information from said information recording medium; and

a reproducing device for reproducing the object data included in the information read by said reading device, on the basis of the play list information file, the object information file and the disc information file included in the information read by said reading device.

22. (Currently Amended) An information reproducing method of reproducing at least one portion of recorded titles from an information recording medium on which one or the plurality of titles, each of which is a logically-grouped information unit, are recorded, said information recording medium comprising:

an object data file for storing object data which constitutes a series of content information;

a play list information file for storing one or more play list information including a plurality of item information which defines a reproduction sequence of the object data by a unit of item, each of the plurality of item information includes start time and the end time of the object data;

an object information file for collectively storing object information which includes information for indicating address of a packet of the object data corresponding to each item; and

a disc information file for storing a plurality of information groups including, as reproduction control information for controlling the reproduction of said object data file, (i) play list specification information, which is different from the play list information, for specifying one play list information stored in said play list information file, (ii) Pre command information which indicates a command to be executed before the reproduction based on the one play list information, and (iii) Post command information which indicates a command to be executed after the reproduction based on the one play list information, thereby allowing the same play list information to be specified by a plurality of play list specification information and allowing the same play list information to be combined with different Pre

and Post commands, wherein each of the object data file, the play list information file, the object information file and the disc information file is collectively recorded into different area, respectively,

said information reproducing method comprising:

a reading process of physically reading information from said information recording medium; and

a reproducing process of reproducing the object data included in the information read by said reading device, on the basis of the play list information file, the object information file and the disc information file included in the information read by said reading device.

23-24. (Canceled)

25. (Currently Amended) A computer-readable storage medium storing thereon a computer program for controlling record and for tangibly embodying a program of instructions executable by a computer to make the computer function as at least one portion of a first recording device, a second recording device, a third recording device and a fourth recording device,

the computer being provided in an information recording apparatus for recording one or a plurality of titles, each of which the one or plurality of titles is a logically-grouped information unit, onto an information recording medium,

said information recording apparatus comprising:

said first recording device for recording an object data file for storing object data which constitutes a series of content



information;

said second recording device for recording a play list information file for storing one or more play list information including a plurality of item information which defines a reproduction sequence of the object data by a unit of item, each of the plurality of item information includes a start time and [[the]] an end time of the object data;

said third recording device for recording [[a]] an object information file for collectively storing object information which includes information for indicating address of a packet of the object data corresponding to each item; and

said fourth recording device for recording a disc information file for storing a plurality of information groups including, as reproduction control information for controlling the reproduction of said object data file, (i) play list specification information, which is different from the play list information, for specifying one play list information stored in said play list information file, (ii) Pre command information which indicates a command to be executed before the reproduction based on the one play list information, and (iii) Post command information which indicates a command to be executed after the reproduction based on the one play list information, thereby allowing the same play list information to be specified by a plurality of play list specification information and allowing the same play list information to be combined with different Pre and Post commands, wherein

each of the object data file, the play list information file, the object information file and the disc information file is

collectively recorded into different area, respectively.

26. (Currently Amended) A computer-readable storage medium storing thereon a computer program for controlling reproduction and for tangibly embodying a program of instructions executable by a computer to make the computer function as at least one portion of a reading device and a reproducing device,

the computer being provided in [[An]] an information reproducing apparatus for reproducing at least one portion of recorded titles from an information recording medium on which one or the plurality of titles, each of which is a logically-grouped information unit, are recorded, said information recording medium comprising:

an object data file for storing object data which constitutes a series of content information;

a play list information file for storing one or more play list information including a plurality of item information which defines a reproduction sequence of the object data by a unit of item, each of the plurality of item information includes start time and the end time of the object data;

an object information file for collectively storing object information which includes information for indicating address of a packet of the object data corresponding to each item; and

a disc information file for storing a plurality of information groups including, as reproduction control information for controlling the reproduction of said object data file, (i) play list specification information, which is different from the play list information, for specifying one play list information

stored in said play list information file, (ii) Pre command information which indicates a command to be executed before the reproduction based on the one play list information, and (iii) Post command information which indicates a command to be executed after the reproduction based on the one play list information, thereby allowing the same play list information to be specified by a plurality of play list specification information and allowing the same play list information to be combined with different Pre and Post commands, wherein each of the object data file, the play list information file, the object information file and the disc information file is collectively recorded into different area, respectively,

said information reproducing apparatus comprising:

said reading device for physically reading information from said information recording medium; and

said reproducing device for reproducing the object data included in the information read by said reading device, on the basis of the play list information file, the object information file and the disc information file included in the information read by said reading device.

27-28. (Canceled)